SEQUENCE LISTING

<110> Roche Diagnostics GmbH

<120> Optimized protein synthesis

<130> 29415pwo

<140> PCT/EP03
<141> 2003-12-09

<160> 57

<170> PatentIn Ver. 2.1

<210> 1
<211> 84
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<220>
<223> Description of Artificial Sequence:Primer C

<400> 1
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata tacc 84

<210> 2
<211> 71
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer D

<400> 2
caaaaaaccc ctcaagaccc gtttagaggc cccaaggggg gccgccagtg tgctgaattc 60
gcctttttatt a 71

<210> 3
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
without hairpinloop

<400> 3
aggagatata ccatgactag caaaggagaa 30

<210> 4
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
stem length 4 bp

<400> 4
aggagatata ccatgactaa ttttagtact agcaaaggag aa 42

<210> 5
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
stem length 5 bp

<400> 5
aggagatata ccatgactgt ttatacagta actagcaaag gagaa 45

<210> 6
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
stem length 6 bp

<400> 6
aggagatata ccatgactgg tcaattacca gtaactagca aaggagaa 48

<210> 7
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
stem length 7 bp

<400> 7
aggagatata ccatgactgc tttacatcaa gcagtaacta gcaaaggaga a 51

<210> 8
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
stem length 8 bp

<400> 8
aggagatata ccatgactgc acgtgatcgt gcagtaacta gcaaaggaga a 51

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer B

<400> 9
attcgccttt tattaatgat gatgatgatg 30

<210> 10
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 10
aggagatata ccatgactag cactgcacgt gcatcgtgca gtgtaaaagg agaagaactt 60

<210> 11
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 11
aggagatata ccatgactag caaaactgca cgtgcatcgt gcagtgtagg agaagaactt 60
ttc 63

<210> 12
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 12
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ttcact 66

<210> 13
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 13
aggagatata ccatgactag caaaggagaa actgcacgtg catcgtgcag tgtagaactt 60
ttcactgga 69

<210> 14
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 14
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ttcactggag tt 72

<210> 15
<211> 75
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 15
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ttcactggag ttgtc 75

<210> 16
<211> 71
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer D

<400> 16
caaaaaaccc ctcaagaccc gtttagaggc cccaaggggt tgggagtaga atgttaagga 60
ttagtttatt a 71

<210> 17
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 17
aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 18
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 18
aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 19
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 19
aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 20
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 20
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<210> 21
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 21
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<210> 22
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 22
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 23
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 23
aggagatata ccatgaaata ttcatataca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 24
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 24
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 25
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 25
aggagatata ccatgcatca tcatcatcat ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 26
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer wild type

<400> 26
aggagatata ccatggctaa caccgcg 27

<210> 27
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer B

<400> 27
aggattagtt tattaatgat gatgatgatg atggcgccgg gtgcgcga 48

<210> 28
<211> 60

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 28
aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 29
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 29
aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 30
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 30
aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 31
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 31
aggagatata ccatgaaata ttattctaca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 32
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 32
aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 33
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 33
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 34
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 34
aggagatata ccatgaaata ttcatataca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 35
<211> 60
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 35
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 36
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 36
aggagatata ccatgcatca tcatcatcat ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 37
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
Wildtyp

<400> 37
aggagatata ccatgggtgc cccgacg 27

<210> 38
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer B

<400> 38
aggattagtt tattaatgat gatgatgatg atgatccatg gcagccagc 49

<210> 39

<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 39
aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcagga gttggggccc 60

<210> 40
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 40
aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcagga gttggggccc 60

<210> 41
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 41
aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 42
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 42
aggagatata ccatgaaata ttattctaca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 43
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 43
aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 44
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 44
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 45
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 45
aggagatata ccatgaaata ttcatataca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 46
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 46
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 47
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 47
aggagatata ccatgcatca tcatcatcat ctgcacgtga tcgtgcagga gttggggccc 60

<210> 48
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
Wildtyp

<400> 48
aggagatata ccatggagtt ggggccc 27

<210> 49
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer B

<400> 49
aggattagtt tattattaat gatgatgatg atgatgagaa ccccc 45

<210> 50
<211> 431
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct for mutant 1

<400> 50
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
gctaacaccg cgccgggacc cacggtggcc aacaagcggg acgaaaaaca ccgtcacgtc 180
gttaacgtcg ttttggagct gccgaccgag atatcagagg ccacccaccc ggtgttggcc 240
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taataaacta atccttaaca ttctactccc aacccccttgg ggcctctaaa cgggtcttga 420
ggggtttttt g 431

<210> 51
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct for wild type

<400> 51
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata taccatggct aacaccgcgc cgggacccac ggtggccaac 120
aagcgggacg aaaaacaccg tcacgtcgtt aacgtcgttt tggagctgcc gaccgagata 180
tcagaggcca cccacccggt gttggccacc atgctgagca agtacacgcg catgtccagc 240
ctgtttaatg acaagtgcgc ctttaagctg gacctgttgc gcatggtagc cgtgtcgcgc 300
acccggcgcc atcatcatca tcatcattaa taaactaatc cttaacattc tactcccaac 360
cccttggggc ctctaaacgg gtcttgaggg gttttttg 398

<210> 52
<211> 632
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct mutant 1

<400> 52
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
ggtgccccga cgttgccccc tgcctggcag ccctttctca aggaccaccg catctctaca 180
ttcaagaact ggcccttctt ggagggctgc gcctgcaccc cggagcggat ggccgaggct 240
ggcttcatcc actgccccac tgagaacgag ccagacttgg cccagtgttt cttctgcttc 300
aaggagctgg aaggctggga gccagatgac gaccccatag aggaacataa aaagcattcg 360
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aaagaatttg aggaaactgc gaagaaagtg cgccgtgcca tcgagcagct ggctgccatg 540
gatcatcatc atcatcatca ttaataaact aatccttaac attctactcc caacccctg 600
gggcctctaa acgggtcttg aggggttttt tg 632

<210> 53
<211> 599
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct wild type

<400> 53

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ttaactttaa gaaggagata taccatgggt gccccgacgt tgccccctgc ctggcagccc 120
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cgtgccatcg agcagctggc tgccatggat catcatcatc atcatcatta ataaactaat 540
ccttaacatt ctactcccaa ccccttgggg cctctaaacg ggtcttgagg ggttttttg 599

<210> 54
<211> 1400
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct mutant 1

<400> 54
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ttaactttaa gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
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gggtcttgag gggttttttg 1400

<210> 55
<211> 1367
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct wild type

<400> 55
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata taccatggag ttggggcccc tagaaggtgg ctacctggag 120
cttcttaaca gcgatgctga ccccctgtgc ctctaccact tctatgacca gatggacctg 180
gctggagaag aagagattga gctctactca gaacccgaca cagacaccat caactgcgac 240
cagttcagca ggctgttgtg tgacatggaa ggtgatgaag agaccaggga ggcttatgcc 300

aatatcgcgg aactggacca gtatgtcttc caggactccc agctggaggg cctgagcaag 360
gacattttca agcacatagg accagatgaa gtgatcggtg agagtatgga gatgccagca 420
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actcccaacc ccttggggcc tctaaacggg tcttgagggg ttttttg 1367

<210> 56
<211> 938
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial
Sequence:expression construct

<400> 56
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
actagcaaag gagaagaact tttcactgga gttgtcccaa ttcttgttga attagatggt 180
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cattatcaac aaaatactcc aattggcgat ggccctgtcc ttttaccaga caaccattac 720
ctgtcgacac aatctgccct ttcgaaagat cccaacgaaa agagagacca catggtcctt 780
cttgagtttg taacagctgc tgggattaca catggcatgg atgaactata caaacccggg 840
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cccttggggc ctctaaacgg gtcttgaggg gttttttg 938

<210> 57
<211> 905
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
expression construct

<400> 57
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata taccatgact agcaaaggag aagaactttt cactggagtt 120
gtcccaattc ttgttgaatt agatggtgat gttaatgggc acaaattttc tgtcagtgga 180
gagggtgaag gtgatgctac atacggaaag cttacccta aatttatttg cactactgga 240
aaactacctg ttccatggcc aacacttgtc actactttct cttatggtgt tcaatgcttt 300

tcccgttatc cggatcatat gaaacggcat gacttttca agagtgccat gcccgaaggt 360
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